

Patent claims:

8. An electrically operated fuel metering pump of a heating equipment comprising a control equipment for a drive of the fuel metering pump and if necessary of the heating equipment, wherein hydraulic/pneumatic states (Z) and parameters (F, N) of a fuel medium are detected in a signal detector by electrical behavior of the fuel metering pump, and are evaluated in the control equipment for control of the metering pump and if necessary of the heating equipment.
9. The fuel metering pump according to claim 8, wherein the heating equipment comprises water heating equipment in the form of booster heater or standstill heater of a motor vehicle.
10. The fuel metering pump according to claim 8, wherein the heating equipment comprises at least one of a fan motor and an ignition device.
11. The fuel metering pump according to claim 8, wherein the drive for the fuel metering pump includes an electric motor or an electromagnetic coil with an armature and pump piston as a medium forwarder, and electrical behavior is detected as of a characteristic course of a motor signal or coil current signal.
12. The fuel metering pump according to claim 11, wherein the characteristic course of the signal is distinguished by a characteristic slope of at least one

of a rising flank (F) and a characteristic level or plateau associated with at least one of a solid or liquid pumping medium and viscosity of a pumping medium.

13. The fuel metering pump according to claim 12, wherein a set of medium parameters (K) is laid down in the control equipment.
14. The fuel metering pump according to claim 13, wherein the set of medium parameters (K) includes a set of temperature slope parameters.
15. The fuel metering pump according to claim 4, wherein the set of medium parameters (K) is designed for at least one of diesel fuel and PME as the medium.
16. A process for control of a heating equipment with an electrically operated fuel metering pump, particularly of a water heating equipment in a form of a booster heater or standstill heater of a motor vehicle, with a control equipment for a drive of the fuel metering pump and if necessary of the heating equipment, according to claim 8, comprising the steps of:

detecting hydraulic/pneumatic states (Z) and parameters (F, N) of a fuel medium in a signal detector of the control equipment by electrical behavior of the fuel metering pump, and

evaluating the states and parameters in the control equipment, in which medium parameters (K) and heating equipment parameters (P), are laid down, for detection of the medium.

17. The process according to claim 16, further comprising using the states and parameters of the fuel medium in the control equipment for at least one of adjustment or corrective drive of the fuel metering pump, a fan motor, an ignition device and parameters of the heating equipment.